

Material Safety Data Sheet

1. Chemical Product / Company Identification

Product Name: **Polymax Cyanoacrylate Adhesive**
Product Type: Ethyl-2-cyanoacrylate ester
Molecular formula: C₆H₇NO₂
EC Number: 230-391-5

2. Composition and Information on Harmful Ingredients

Ingredients	CAS No.	OSHA PEL ¹	ACGIH TLV ²	Other Limits	% Composition
Ethyl-2-cyanoacrylate	7085-85-0	N/A	0.2ppm (TWA)	0.3ppm 15min STEL ³	90 - 95
Poly (methyl methacrylate)	9011-14-7	N/A	N/A	N/A	5 - 10

3. Hazards Identification

Label Precautionary Statements: IRRITANT 
Irritating to Eyes, Skin and Respiratory system

Cyanoacrylate. Danger Bonds Skin and Eyes in seconds

Primary Routes of Entry: None known

Symptoms of Exposure: Vapour highly irritating to eyes and breathing. Prolonged exposure to excessive amounts may lead to non-allergic asthma.

Medical Conditions Aggravated by Exposure: no applicable information found

Estimated NFPA® Code: Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 2
Specific hazard: Does not apply

Ethyl cyanoacrylate is not listed as a carcinogen in the UK EH40/98, the US National Toxicology Program Annual report on carcinogens, or by the International Agency for Research on Cancer.

¹ OSHA Permissible Exposure Limit (PEL)

² ACGIH Threshold Limit Value (TLV).

³ United Kingdom Health and Safety Commission (HSC), Advisory Committee on Toxic Substances; WATCH/AG/1/99

4. First Aid Measures

Ingestion: Ingestion not likely due to polymerisation

Inhalation: Remove to fresh air, if symptoms continue seek medical advice

Skin contact: Soak in warm soapy water, do not prise apart.

Eye contact: Flush with copious volumes water, seek immediate medical attention.

5. Fire Fighting Measures

Flash Point: > 81°C

Extinguishing media: Water spray, foam, dry chemical or carbon dioxide.

Special Fire fighting procedures: fire-fighters should wear self contained breathing apparatus.

Unusual fire / explosion hazards: no applicable information found

Hazardous thermal decomposition products: Irritating organic vapours may be formed.

6. Accidental Release Measures

Ventilate area of spill; flood slowly with water to polymerise, absorb with sand / earth and dispose to chemical waste bin. Dispose in accordance with pertinent national legislation.

7. Handling and Storage

When using large volumes ensure that operational area is well ventilated.

Store between 5-25°C; avoid strong light and heat sources

Incompatible with amine, bases, water

Avoid skin contact and inhalation of vapour

8. Exposure Control and Personal Protection

Eye Protection: Safety Goggles / glasses suitable for use with chemicals.

Respiratory Protection: Always use appropriate Filter Mask / Respirator (NIOSH / MSHA Approved)

Skin Protection: Nitrile / polyethylene gloves, coveralls, avoid cotton products

Ventilation: Good general or local exhaust ventilation are required for usage.

9. Physical and Chemical Properties

Form: Liquid

Colour:	Clear
Odour:	Sharp, irritating
Solubility in water:	Immiscible in water
Boiling Point:	>100°C
Specific Gravity @ 25°C:	1.1
Vapour Pressure @ 25°C:	<0.5 mm Hg
Flash Point:	>81°C

10. Reactivity and Stability

Stability:	Stable
Hazardous polymerisation:	Will not occur
Incompatibility:	water and any basic substance
Conditions to avoid:	no applicable information found
Hazardous decomposition Products (non-thermal):	no applicable information found

11. Toxicological information

Estimated oral LD50:	>5000 mg kg
Estimated dermal LD50:	>2000 mg kg

Causes Severe Irritation.

High concentrations are destructive to tissues of the mucous membranes and the upper respiratory tract.

12. Ecological Information

No applicable information found

13. Disposal Considerations

Liquid / polymeric cyanoacrylates must be disposed of in accordance with the UK Environmental Protection Act 1990, or other relevant / local legislation outside the UK.

14. Transportation Information

Not considered hazardous for the purposes of transportation.

15. Regulatory Information

EUROPEAN INFORMATION:

R36/37/38	Irritating to Eye, Skin and Respiratory System
S23	Do Not Breath Vapour
S24/25	Avoid contact with Skin and Eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

CYANOACRYLATE. DANGER BONDS SKIN AND EYES IN SECONDS

Disclaimer

The information contained within this MSDS applies only to the Polymax product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However no warranty is made, either express or implied, regarding its accuracy or any liability arising out of the use of the information herein or the products supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classification of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers / staff.

END OF DOCUMENT